

SCHOOL BUS CHASSIS SPECIFICATION

NOTE: All bids on chassis equipment shall meet or exceed the specifications listed below and, in addition, those stated in the publication “Minimum Standards for Construction of School Transportation Equipment, Iowa TR-B-3R (Revised 1998)” as well as any appropriate Federal Motor Vehicle Safety Standards. These specifications are also available on the Department of Education Web site.
www.state.ia.us/educate/docs/constru.pdf

CHASSIS ITEM & RULES CHAPTER	SPECIFICATION INFORMATION	BIDDERS BASE PROPOSAL	OPTION	OPTION PRICE (ADD OR DEDUCT)
1. Air Cleaner 44.3(1)	Meeting manufacturers specification as to engine requirement			
2. Alternator 44.3(2)	<u>All chassis greater than 10,000 pounds GVWR</u> 100 amp producing 50 amp at 1,500 rpm alternator rotor speed And 100 amp at 4,500 rpm alt. rotor speed <u>Chassis 15,000 pounds GVWR or less</u> 80 amp producing 60 amp at 1,500 rpm alternator rotor speed And 80 amps at 4,500 rpm alternator rotor speed			
3. Axles 44.3(3)	Full floating type with minimum capacity of : Front _____lb. Rear _____lb. (Specify gear ratios available) Min—shall have GAWR that will be imposed by the bus			
4. Battery System 44.3(5)	<u>Gas Eng. – greater than 10,000 lb. GVWR</u> 150 min. reserve cap. And 500 cca <u>Gas Eng. – 10,000 lb. GVWR or less</u> 125 min. reserve cap. And 450 cca <u>Diesel – all</u> 200 min. reserve cap. And 1000 cca			

CHASIS ITEM	SPECIFICATION INFORMATION	BIDDERS BASE PROPOSAL	OPTION	OPTION PRICE (Add or Deduct)
5. Brakes 44.3(6)	<u>Brakes, Air Required if:</u> Greater than 66 passenger or 274 inches w.b. requires air brakes – meet IA min. specifications <u>Brakes, Hydraulic or Vac./Hydraulic</u> See minimum standards			
6. Engine (power and gradeability) 44.3(29)	Governor Yes _____ No _____ <u>Gas</u> Min. _____ ci displacement or _____ liter <u>Diesel</u> Min _____ ci displacement of _____ liter Horsepower spec _____ hp			
7. Bumper, Rear 44.3(8) Bumper, Front 44.3(7)	Heavy duty type, 3/16 in. pressed steel channel, painted black			
8. Clutch 44.3(10)	Clutch torque capacity equal to or greater than engine torque output. Starter interlock shall be required with manual clutch.			
9. Color 44.3(11)	Bumper - black Wheels & rim – gray or black Hood, cowl & fenders – yellow - flat surface of hood may be nonreflective national school bus yellow – black is not acceptable			
10. Electrical System 44.3(15) See subrule 44.3(41)	Wiring to terminal shall have a minimum 100-ampere capacity.			

CHASSIS ITEM & RULES CHAPTER	SPECIFICATION INFORMATION	BIDDERS BASE PROPOSAL	OPTION	OPTION PRICE (ADD OR DEDUCT)
11. Fuel System 44.3(20)	48 cap or 189 in. wb. = 60 gal. Less than 48 cap = 30 gal. wheelbase less than 170 inches <u>Gas</u> = one in-line fuel filter in addition to carb filter between tank and engine <u>Diesel</u> = one in-line fuel filter, one spin-on fuel filter, and in-line water/fuel separator min. Must confirm to Motor Carrier Safety Regulations.			
12. Fuels, Alternative 44.3(19)	Must meet all applicable standards of the rule.			
13. Horns 44.3(24)	Dual horns/standard make.			
14. Shock Absorbers 44.3(30)	Heavy duty front and rear double action compatible with manufacturers rated axle capacity at each wheel.			
15. Spring Suspension Assembly 44.3(31)	Progressive-type rear (specify capacity). Specify front capacity.			
16. Tires 44.3(35)	Tubeless, steel belted radial construction required			
17. Rims & Wheels 44.3(35)	As per chassis requirements. No multipiece rims.			
18. Tow Hooks 44.3(36) See subrule 44.3(7)	Two heavy duty tow hooks secured to the front end of the frame rails			
19. Transmission 44.3(37)	Manual _____ yes _____ no Automatic _____ yes _____ no			

Chassis Item	Specification Information	Bidders Base Proposal	Option	Option Price (Add or Deduct)
20. Undercoating 44.3(39)	Undersides of all exposed metal front fenders or metal liners shall be undercoated.			
21. Service Manual	Bidder shall provide a complete shop service and parts manual(s) of models purchased. One set of manuals for each vehicle purchased is required.			
21. Backup Alarm 44.3(4) See also subrule 44.4(2)				
22. Drive Shaft 44.3(14)	Protected as per minimum specifications			